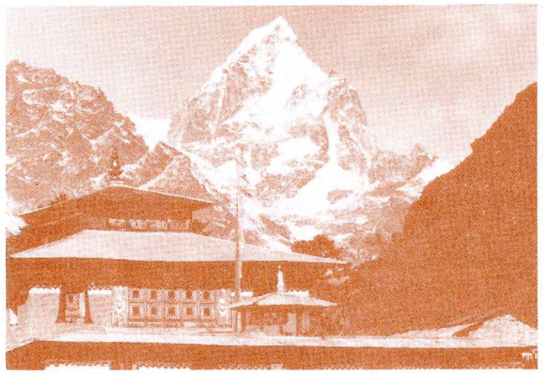
May Meetings

Dates & Times
Matinee 2:30 p.m. Wednesday, May 12, 1982
Evenings, 8:00 p.m. Wednesday and Thursday, May 12 and 13, 1982

Place
May Treat Morrison Auditorium

Speaker
Edwin Bernbaum

Subject
"Hidden Valleys of the Himalayas"



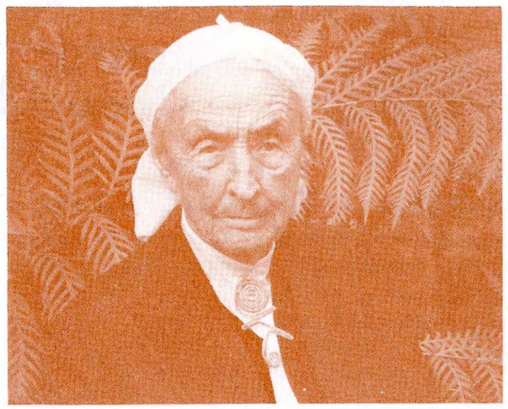
Edwin Bernbaum first heard of a hidden valley in the Himalayas called Khembalung from the brother of the head lama of Tengboche monastery. The story reminded him of the fictional Shangri-La of *Lost Horizon* and he decided he must find it. His adventure led him over a 21,000 -foot peak and across numerous glaciated passes, but he made it. Mr. Bernbaum will share his adventure with Academy members this month in a slide lecture and discuss ancient Tibetan legends and their symbolism in Tibetan art and Buddhism.

Mr. Bernbaum is author of *The Way to Shambhala* and a doctoral candidate in Asian Studies at the University of California at Berkeley.

Your membership card admits you through the main entrance of Cowell Hall for the evening presentations and through Cowell Hall and Wattis Hall entrances for the matinee. Please be prepared to show your card once again at the auditorium door for the matinee presentation.

SNEAK PREVIEW: David Cavagnaro will discuss exploration of Lake Superior country at the June 9 and 10 Members' Meetings.

Special Exhibits



Georgia O'Keeffe, 1981

The largest exhibit of the works of Ansel Adams continues in the Patricia Price Peterson and Atholl McBean Galleries through September 6. **Ansel Adams: The 80th Birthday Retrospective** is a comprehensive exhibition of 120 works dating from his earliest works in 1916 through 1979. Organized by Mary Alinder for the Monterey Peninsula Museum of Art.

The Unknown Ansel Adams contains 60 "new" works from his negative files. Organized by Jim Alinder for the Friends of Photography.

A new exhibit entitled **Elephants Have the Right-of-Way** will open May 23 in Lower Cowell Hall Gallery. This exhibit of 30 large color photos by San Mateo photographer Bill Sciallo, shows the game of Kenya in several of the National Parks including Masai Mara, Amboseli, Meru and Tsavo. (Through September 19, 1982)

Italy: A Country Shaped by Man, an exhibition of photographs, audio-visual, books, art works, artifacts and a unique multi-vision show continues through June 6. Sponsored by the Turin-based Giovanni Agnelli Foundation.

Continuing photography exhibits are **The Black-tailed Deer** (through May 16) and **Portraits of the Southwest** (through June 6).

Morrison Planetarium

Giant asteriods, dinosaurs, comets, a planet line-up and exploding suns are the subjects of **Cosmic Catastrophes,** the current sky show in the Morrison Planetarium, (through June 13). See this show at the following times: Monday through Friday at 2:00 p.m., Wednesday and Thursday evenings at 7:30, and Saturday and Sunday at 12:30, 2:00 and 3:30 p.m. *Memorial Day schedule, May 31, at 11:00 a.m., and 12:30, 2:00 and 3:30 p.m.*

Don't miss **Exploring the Skies of the Season,** an enjoyable tour of the current night sky over San Francisco, every Saturday and Sunday at 11:00 a.m. Please use your complimentary passes for both of these shows.

Light Shows

Enter another world with a visit to one of Eye See the Light Show, Inc's light shows.

Spotlight: The Beatles on Thursday and Sunday at 9:00 p.m.

Lights Fantastic on Saturday and Sunday at 5:00 p.m.

Rock Fantasy on Friday and Saturday at 9:00 and 10:30 p.m. and Sunday at 7:30 p.m.

Added Memorial Day show on May 31 at 5:00 p.m. (Call 221-5100 ext. 269 for show title).

Tickets are available through BASS at 835-3849. Admission for adults is $4.00 for evening presentations and $3.50 for matinee (5:00 p.m.) Admission to all shows for children 10 and under and for senior citizens is $2.00. Members are reminded that these are **not** regular planetarium shows, so your planetarium passes are **not** usable for these presentations.

Academy Joins San Francisco Summer Festival!

SAN FRANCISCO SUMMER FESTIVAL

The San Francisco Summer Festival, running May 28 through August 15, is a city-wide showcase of the arts. On stages, in parks, museums, and galleries during the day and into the evenings, theater, dance, music and the visual arts will be prominent throughout the City.

As part of the San Francisco Summer Festival, the Academy joins the City's many cultural organizations in a celebration of the rich diversity of the performing and visual arts by offering *The Heritage of Islam,* the multi-million dollar exhibition of Islamic arts and sciences from around the world. *The Heritage of Islam* will open July 2 and continue through September 26.

A special San Francisco Summer Festival calendar of events will be arriving this month to all members of the Academy. Watch for it!

THE DINOSAURS:

Scientist and Artist Reconstruct a Lost Era

Wednesday, June 2 7:30 p.m.
Morrison Auditorium
Lecturers: *Dr. Kevin Padian,* Assistant Professor and Curator, Museum of Paleontology, University of California, Berkeley
William Stout, artist and author of "The Dinosaurs, A Fantastic New Look of a Lost Era"

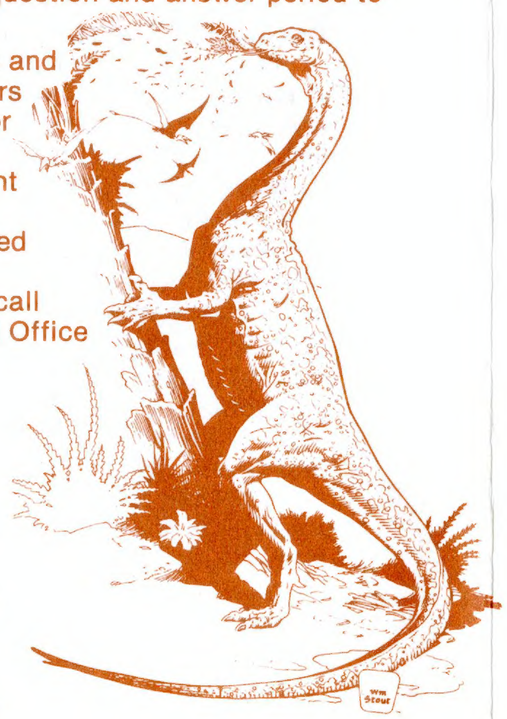
DINOSAURS! Everyone is fascinated by them, from children to scientists.

Recent digs have more than doubled our knowledge of these monstrous creatures which roamed the earth 225 - 130 million years ago. With new data, old theories topple; new theories and controversy abound. Dr. Kevin Padian will discuss the latest news and views in the world of dinosaurs: the famous asteroid extinction theory, the Brontosaurus's new head, the search for dinosaurs in the Congo, and more.

How is the new data used? Artist William Stout has created a visually exciting new book, "The Dinosaurs, A Fantastic New Look of a Lost Era". Mr. Stout will give us a behind-the-scenes glimpse of how his illustrations of dinosaurs came to be. Working from skeletal remains and using current research, Mr. Stout has "put the meat on the bones" of these remarkable creatures and has recreated their environments with a superb combination of scientific data and artistic style.

Join us for this very special evening event. There will be an informal question and answer period to follow.

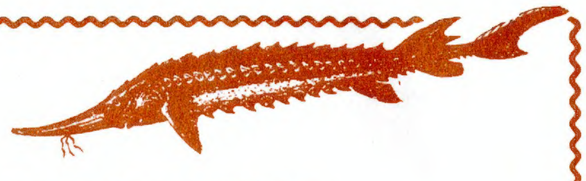
Cost is $2 for adults and 75¢ for those 17 years and under and senior citizens. Seats will only be sold the night of the lecture on a first come, first served basis. For further information, please call the Education/Travel Office at (415) 221-5100, ext. 211 or 215.



NOTICE:
The Nature Company will have "The Dinosaurs, A Fantastic New Look of a Lost Era" available at both the lecture and in their museum shop.

State of The Bay Conference

Friday, ~~May~~ June 4, 1982 8:30 a.m.
Morrison Auditorium



The San Francisco Bay Chapter of the Oceanic Society will present the first annual State of the Bay Conference at the California Academy of Sciences. The conference is intended to develop a set of easily understood index numbers describing the Bay's water quality, quantity, fisheries and habitats — the translation of technical data into readily digestible information for public consumption. Cooperating with the Bay Chapter of the Oceanic Society in this innovative effort will be the Academy, the Bay Conservation and Development Commission, the American Planning Association, the Bay Area Council, and the Tiburon Center for Environmental Studies at San Francisco State University. In addition, the Army Corps of Engineers is providing partial support for this undertaking. Proceedings of the conference will be published.

PROGRAM *(Partial listing)*

Registration (8:30 a.m.)

Introduction (9:00 a.m.) Michael J. Herz, *Executive Vice President, Oceanic Society*

Politics of the Bay and Delta Tom Bates, *California Assembly Member, Oakland*

San Francisco Bay and the Quality of the Environment Charles Warren, *past Chairman, President's Council on Environmental Quality*

Water Quality Indicators (Panel 1) *Paper:* William Davoren/Phillip Meyer, *Bay Institute* *Discussants:* Michael Storper, *Friends of the Earth*

Habitats Indicators (Panel 2) *Paper:* Michael Josselyn, *S.F. State University;* Scott McCreary, *State Coastal Conservancy* *Discussants:* Nancy Wakeman, *BCDC;* Charles Roberts, *Port of Oakland;* Rod Chisholm, *Army Corps of Engineers*

Lunch (12:30 - 1:45 p.m.)

Water Quality Indicators *Paper:* Jeanette Whipple, *National Marine Fisheries Service* *Discussants:* John Conomos, *U.S. Geological Survey;* Carla Bard, *State Water Resources Control Board*

Fisheries Panel *Paper:* Leon Barzin, *Bay Institute;* Zack Willey, *Environmental Defense Fund* *Discussants:* Zeke Grader, *Pacific Coast Federation of Fishermen's Association;* Pete Chadwick, *Department of Fish and Game*

State of the Bay and Delta Summary Paul de Falco, *past Regional Administrator, Environmental Protection Agency*

Ticket Information and Reservation Form

Tickets are available for the conference with this registration form. Reservations will be accepted in order of receipt and unfortunately telephone reservations cannot be accepted for this event. Tickets will be sold at the door on a space available basis.

For further information please call the San Francisco Bay Chapter of the Oceanic Society at (415) 441-5970.

TICKET ORDER FORM

Please mail this form with check made payable to the S.F. Bay Chapter of the Oceanic Society, and a self-addressed envelope to:

STATE OF THE BAY CONFERENCE
Oceanic Society
Bldg. E. Fort Mason
San Francisco, CA 94123

Price: *Conference with lunch*
C.A.S. & Oceanic Society Members @$15.00 per person _____
Non-Members @$17.00 per person _____

Conference only
C.A.S. & Oceanic Society Members @$10.00 per person _____
Non-Members @$12.50 per person _____
Students free with two paid registrants

Total Amount Enclosed _____

_____
Name
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Affiliation
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Address
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Zip Code
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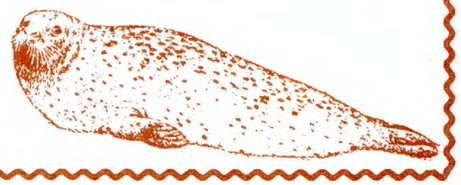
Telephone # *(Day)* *(Night)*

NO REFUNDS
NO EXCHANGES



Education & Travel

Explore the world of nature as a participant in an Academy Adult Education course. Four fascinating and informative courses begin in May. Information appears in your Summer Activities Calendar. For a copy of the calendar and additional information, please call the Education/Travel Office at (415) 221-5100, ext. 211.

MAKE YOUR OWN TELESCOPE
May 3 & 5, 10 & 12, 17 & 19 and June 2 & 3
(8 sessions)
7-9:00 p.m.
Instructor: John Dobson
Cost: $25 members, $30 non-members plus materials fees of approximately $140.

Don't miss this opportunity to build your own telescope! The Dobsonian telescope is far less costly than commercially manufactured telescopes and is easy to make. The wonders of the night sky await your night-time viewing.

STARGAZING FOR BACKPACKERS
May 4 - June 1
7-9:00 p.m.
Instructor: Kenneth Wilson
Cost: $20 members, $25 families
$25 non-members, $30 families

All campers know how beautiful the night sky can be away from the lights of the City. Now you can learn the names of those points of light, how to use a star chart, and how to use your binoculars to get a closer look at the heavens.

BUDDING NATURALISTS AT PEPPERWOOD
May 11 & 18 (Lectures)
7-9:30 p.m.
May 22 (Field Trip)
Instructors: Dr. Frank Almeda, Botany
Dr. Luis Baptista, Ornithology
Dr. David Kavanaugh, Entomology
Ms. Jean Smith, Geology
Cost: $25 members, $35 non-members, includes transportation, instruction and refreshments

Join Academy staff members to learn the skills and techniques used by naturalists in the field. With slide/lectures and use of the Academy's collections, we will learn how to wisely collect and identify. A field trip to Pepperwood Ranch to practice our new skills completes this course.

AQUA-CARE: Aquarium Husbandry and Maintenance
May 13 - 27
(3 Thursdays)
7-9:00 p.m.
Instructor: John Hewitt, Steinhart Biologist
Cost: $15 members, $20 non-members

Learn how to set up and maintain freshwater and marine aquaria! Steinhart Aquarium will serve as a classroom as both beginning and advanced aquarists learn to successfully enjoy this hobby in their home. Aquarium theory, fish nutrition, fish diseases, fish behavior and aquarium maintenance will be discussed.

Darwin's Galapagos
June 30 - July 13

Friendly sea birds, sea lions, marine and land iguanas, and famous Galapagos tortoises await Academy members on our annual tour to those "living laboratories of evolution" known as the Galapagos Islands. We will cruise in comfort aboard the M.V. Santa Cruz through the island chain, going ashore by small boats called "Humbers" and exploring on foot. A fine group of naturalists will lecture on the splendid array of flora and fauna and the geologic history of the islands. Costs range from $2400 to $3230 per person, depending upon your accommodations aboard, plus air fare. For information and a colorful brochure, please call the Academy Travel Office at (415) 221-5100.

Peru Archaeological Discovery
July 14 - 30

The spectacular scenery of the Urubamba Valley and the snow-covered mountains of the Cordillera await Academy travellers in Peru. Dr. Dorothy Washburn, Chairman of the Academy's Department of Anthropology, will guide members to major archaeological sits such as Chan-Chan, Chavin de Huantar, Machu Picchu and the famous Nazca Lines. A trip by train to Lake Titicaca, the highest lake in the world, will complete this exciting tour. Cost is $1750 plus air fare. For information, please call the Academy Travel Office at (415) 221-5100.

American West Spectacular
July 21 - August 6

Join Academy members for a 17-day introduction to the natural history and ecology of the finest national parks and natural environments in the west. Highlights of this diverse itinerary include Yosemite and the High Sierra, Mono Lake and the White Mountains, Zion, Bryce and the Grand Canyon, and the pristine eco-systems of the Grand Tetons and Yellowstone National Park. Travel is by 15-passenger vans and by air. Cost is $1250 per person for land arrangements and $311 for air at current rates. For information and a brochure, please call Betchart Expeditions at (408) 245-9517.

African Elephant by Bill Sciallo from the exhibit **Elephants Have the Right-of-Way**

Kenya Safari
August 6-28

Gorilla Tracking in Rwanda
August 26 - September 4

Kenya is a land of great contrasts, from broad sweeping savannah lands to lush mountain peaks. This special itinerary is designed to cover the diverse regions of this colorful African country. Dr. Robert Drewes will lead members on a safari that includes Tsavo National Park, Amboseli National Park, Mountain Lodge for night-time game viewing, Samburu National Park, and camping in the Lake Baringo area and the Maasai Mara Game Reserve. We will fly to Mombasa to relax on Kenya's scenic beaches before our return home. An optional extension into the jungle regions of Rwanda to meet, face-to-face, with the remarkable mountain gorillas is offered for those who wish to participate in a truly unique African experience. Cost is $3190 for the Kenya portion, plus air fare. The Rwanda extension is $1115 plus air fare. For information, please call Siemer & Hand, Ltd. at (415) 788-7186.

Kashmir and Ladakh Walking Expedition
September 2 - 26

Attention vigorous and experienced hikers! With the guidance of Robert Fleming, Jr., one of the foremost Himalayan naturalists, Academy members will participate in a 25-day walking expedition to study the natural history and cultural diversity of Kashmir an Ladakh. A nine-day pony trek into the Vale of Kashmir highlights this special travel experience. Cost is $2190 plus air fare. For information, please call Nature Expeditions at (415) 494-6572.

A Safari In Australia
September 18 - October 10

The comprehensive itinerary for Safari In Australia was especially planned by Dr. Robert T. Orr who has led Academy trips "down under" in the past and will also lead this one. A delightful one-week extension to New Zealand's north island has also been planned. For information, please call the Academy Travel Office at (415) 221-5100.

Antarctica
Four departure dates:
November 13
November 30
December 24
January 17

Truly a unique and exciting destination, Antarctica is a land of abundant wildlife and startling, dramatic beauty. Cruising aboard the *Lindblad Explorer,* one may expect to see huge aggregations of penguins, albatross, terns and other birds, sea lions, fur seals, elephant seals, and porpoises. There will also be opportunities to visit the research stations of Chile and Argentina and the American Palmer Station. Dr. Sylvia Earle, of the Academy, will lead the December 24th and January 17th departures. For information and a colorful brochure, please call the Academy Travel Office at (415) 221-5100.

Golden Gate Park, San Francisco, California 94118

No. 509

California Academy of Sciences

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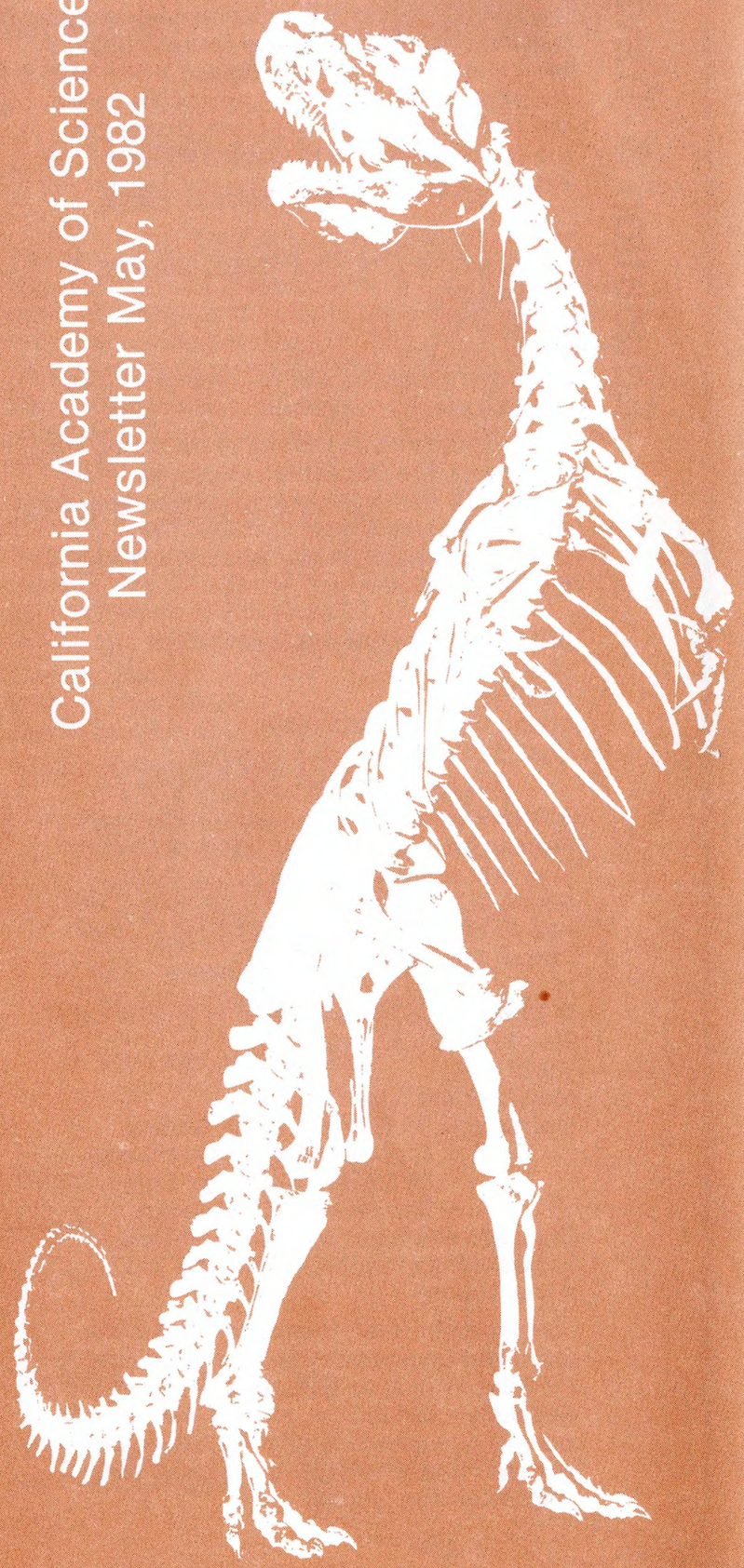
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